

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1282	(375/347).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/27 14:25
S2	1535	MIMO and ((multiple or several) near3 antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:25
S3	165	S2 and (trellis or TCM)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:26
S4	113	S3 and ((symbol near4 transmit\$5) with antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:27
S5	42	S3 and ((symbol near4 transmit\$5) with antenna with vector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:27
S6	21	S4 and @pd<"20030818"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:10
S8	0	S6 and ((guess or estimate) with symbol with (first near3 antenna))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:40
S9	3	S6 and (symbol with (first near3 antenna))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:51

EAST Search History

S10	2	("6,185,258").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/27 14:51
S11	1	(US-6185258-\$).did.	USPAT	OR	ON	2006/10/27 14:55
S12	1	(US-6473467-\$).did.	USPAT	OR	ON	2006/10/27 14:58
S13	35	S2 and (received with symbol with (first near3 antenna))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:15
S14	4	S13 and @pd<"20030818"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:16
S15	1	(US-20030072452-\$).did.	US-PGPUB	OR	ON	2006/10/27 15:13
S16	238	S2 and (received with symbol with decod\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:16
S17	4	S14 and @pd<"20030818"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:16
S18	441	S2 and (received same symbol same decod\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:16
S19	52	S18 and @pd<"20030818"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:19

EAST Search History

S20	43	S19 and (symbol same estimate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:19
S21	162	S1 and (first same antenna same symbol same (decod\$4 or received))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:19
S22	69	S21 and @pd<"20030818"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:19
S23	5	S22 and MIMO	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 15:19
S24	2	("4891823").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/27 16:00
S25	1	(US-4891823-\$).did.	USPAT	OR	ON	2006/10/27 16:00
S26	1535	MIMO and ((multiple or several) near3 antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 16:14
S27	165	S26 and (trellis or TCM)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 16:14
S28	42	S27 and ((symbol near4 transmit\$5) with antenna with vector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 16:14

EAST Search History

S29	10	S28 and @pd<"20030818"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 16:14
S30	39692	(MIMO) or (plural\$4 near3 antenna) or (multiple near3 antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 14:57
S31	397	S30 and (channel near2 matrix) and (coset or trellis or viterbi)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 14:58
S32	82	S31 and @pd<"20030818"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 14:58
S33	24	S32 and (first near3 (vector or matrix)) and (second near3 (vector or matrix))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 14:58
S34	23	S33 and (column with matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 14:58
S35	23	S34 and (conjugate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 14:58
S36	10	S35 and (autocovariance or covariance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 14:58

EAST Search History

S37	1	(Gardner and Jones and Nee and Awater).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:44
S38	75913	(Gardner or Jones or Nee or Awater).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:45
S39	63	(decod\$3 and (multi or MIMO) and matrix and antenna and vector).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:48
S40	1	S38 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:46
S41	8465	((375/267,347) or (342/378) or (370/329,338)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 20:48
S42	47	S41 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:49
S43	1	S42 and S37	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:49
S44	39692	(MIMO) or (plural\$4 near3 antenna) or (multiple near3 antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:52

EAST Search History

S45	397	S44 and (channel near2 matrix) and (coset or trellis or viterbi)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:51
S46	82	S45 and @pd<"20030818"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:51
S47	24	S46 and (first near3 (vector or matrix)) and (second near3 (vector or matrix))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:51
S48	23	S47 and (column with matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:51
S49	6098	((370/330,203,335) or (455/427, 101)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 20:53
S50	2127	MIMO and ((multiple or several) near3 antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:53
S51	211	S49 and S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:53
S52	1	S51 and S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/27 20:54


☐ Search Results

BROWSE

SEARCH

IEEE XPLORE GUIDE

Results for "((((((mimo) or (plural* <near/3> antenna) or (multiple <near/3> antenna))<in>metad..."

☐ e-mail

Your search matched 51 of 4835 documents.

A maximum of 100 results are displayed, 100 to a page, sorted by **Publication year in Ascending order**.

» Search Options

[View Session History](#)
[New Search](#)

Modify Search

☐ Check to search only within this results set

 Display Format: ☒ Citation ☐ Citation & Abstract

» Key



Indicates full text access.

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard


1. Spatio-temporal coding for wireless communication

Raleigh, G.G.; Cioffi, J.M.;
[Communications, IEEE Transactions on](#)
 Volume 46, Issue 3, March 1998 Page(s):357 - 366
 Digital Object Identifier 10.1109/26.662641

[Abstract](#) | Full Text: [PDF](#)(412 KB) IEEE JNL
[Rights and Permissions](#)


2. Multivariate modulation and coding for wireless communication

Raleigh, G.G.; Jones, V.K.;
[Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Integration. IEEE](#)
 Volume 6, 8-12 Nov. 1998 Page(s):3261 - 3269 vol.6
 Digital Object Identifier 10.1109/GLOCOM.1998.775808

[Abstract](#) | Full Text: [PDF](#)(540 KB) IEEE CNF
[Rights and Permissions](#)


3. Column-anchored zeroforcing blind equalization for multiuser wireless FI

Jie Zhu; Zhi Ding; Xi-Ren Cao;
[Selected Areas in Communications, IEEE Journal on](#)
 Volume 17, Issue 3, March 1999 Page(s):411 - 423
 Digital Object Identifier 10.1109/49.753727

[Abstract](#) | Full Text: [PDF](#)(452 KB) IEEE JNL
[Rights and Permissions](#)


4. Concatenation of space-time block codes and "turbo"-TCM

Bauch, G.;
[Communications, 1999. ICC '99. 1999 IEEE International Conference on](#)
 Volume 2, 6-10 June 1999 Page(s):1202 - 1206 vol.2
 Digital Object Identifier 10.1109/ICC.1999.765499

[Abstract](#) | Full Text: [PDF](#)(476 KB) IEEE CNF
[Rights and Permissions](#)


5. Increasing data rate over wireless channels

Naguib, A.F.; Seshadri, N.; Calderbank, A.R.;
[Signal Processing Magazine, IEEE](#)
 Volume 17, Issue 3, May 2000 Page(s):76 - 92
 Digital Object Identifier 10.1109/79.841731

[Abstract](#) | [Full Text: PDF\(728 KB\)](#) IEEE JNL
[Rights and Permissions](#)



6. Applying the Calderbank-Mazo algorithm to space-time trellis coding

Gozali, R.; Woerner, B.D.;
[Southeastcon 2000. Proceedings of the IEEE](#)
7-9 April 2000 Page(s):309 - 314
Digital Object Identifier 10.1109/SECON.2000.845583

[Abstract](#) | [Full Text: PDF\(472 KB\)](#) IEEE CNF
[Rights and Permissions](#)



7. Design of space-time codes with optimal coding gain

Mukkavilli, K.K.; Ionescu, D.M.; Aazhang, B.;
[Personal, Indoor and Mobile Radio Communications, 2000. PIMRC 2000. The International Symposium on](#)
Volume 1, 18-21 Sept. 2000 Page(s):495 - 499 vol.1
Digital Object Identifier 10.1109/PIMRC.2000.881473

[Abstract](#) | [Full Text: PDF\(396 KB\)](#) IEEE CNF
[Rights and Permissions](#)



8. Estimation of co-channel signals with linear complexity

Miller, C.L.; Taylor, D.P.; Gough, P.T.;
[Communications, IEEE Transactions on](#)
Volume 49, Issue 11, Nov. 2001 Page(s):1997 - 2005
Digital Object Identifier 10.1109/26.966076

[Abstract](#) | [Full Text: PDF\(194 KB\)](#) IEEE JNL
[Rights and Permissions](#)



9. Trellis precoding for the broadcast channel

Wei Yu; Cioffi, J.M.;
[Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE](#)
Volume 2, 25-29 Nov. 2001 Page(s):1344 - 1348 vol.2
Digital Object Identifier 10.1109/GLOCOM.2001.965707

[Abstract](#) | [Full Text: PDF\(175 KB\)](#) IEEE CNF
[Rights and Permissions](#)



10. Khatri-Rao space-time codes

Sidiropoulos, N.D.; Budampati, R.S.;
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEEE Transactions on\]](#)
Volume 50, Issue 10, Oct. 2002 Page(s):2396 - 2407
Digital Object Identifier 10.1109/TSP.2002.803341

[Abstract](#) | [Full Text: PDF\(505 KB\)](#) IEEE JNL
[Rights and Permissions](#)



11. LDPC-based space-time coded OFDM systems over correlated fading channels: Performance analysis and receiver design

Lu, B.; Xiaodong Wang; Narayanan, K.R.;
[Communications, IEEE Transactions on](#)
Volume 50, Issue 1, Jan. 2002 Page(s):74 - 88
Digital Object Identifier 10.1109/26.975756

[Abstract](#) | [Full Text: PDF\(346 KB\)](#) IEEE JNL
[Rights and Permissions](#)










12. Coding approaches for multiple antenna transmission in fast fading and

Muller-Weinfurter, S.H.;
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEEE Transactions on\]](#)
Volume 50, Issue 10, Oct. 2002 Page(s):2442 - 2450








Digital Object Identifier 10.1109/TSP.2002.803351

[Abstract](#) | [Full Text: PDF\(391 KB\)](#) IEEE JNL
[Rights and Permissions](#)

-  **13. Reduced-complexity space-time turbo-equalization for frequency-selective channels**
Bauch, G.; Al-Dhahir, N.;
[Wireless Communications, IEEE Transactions on](#)
Volume 1, Issue 4, Oct. 2002 Page(s):819 - 828
Digital Object Identifier 10.1109/TWC.2002.805094
[Abstract](#) | [Full Text: PDF\(862 KB\)](#) IEEE JNL
[Rights and Permissions](#)
-  **14. Performance comparison of layered space time codes**
Ka Leong Lo; Marinkovic, S.; Zhuo Chen; Vucetic, B.;
[Communications, 2002. ICC 2002. IEEE International Conference on](#)
Volume 3, 28 April-2 May 2002 Page(s):1382 - 1387 vol.3
Digital Object Identifier 10.1109/ICC.2002.997077
[Abstract](#) | [Full Text: PDF\(266 KB\)](#) IEEE CNF
[Rights and Permissions](#)
-  **15. Performance of space-time trellis codes in frequency selective WCDMA s**
Yang, H.; Yuan, F.; Vucetic, B.;
[Vehicular Technology Conference, 2002. Proceedings. VTC 2002-Fall, 2002 II](#)
Volume 1, 24-28 Sept. 2002 Page(s):233 - 237 vol.1
Digital Object Identifier 10.1109/VETECF.2002.1040339
[Abstract](#) | [Full Text: PDF\(326 KB\)](#) IEEE CNF
[Rights and Permissions](#)
-  **16. Trellis coding for diagonally layered space-time systems**
Matache, A.; Wesel, R.D.; Jun Shi;
[Communications, 2002. ICC 2002. IEEE International Conference on](#)
Volume 3, 28 April-2 May 2002 Page(s):1388 - 1392 vol.3
Digital Object Identifier 10.1109/ICC.2002.997078
[Abstract](#) | [Full Text: PDF\(257 KB\)](#) IEEE CNF
[Rights and Permissions](#)
-  **17. Upper bound on the error probability for space-time codes in fast fading**
Hyundong Shin; Jae Hong Lee;
[Vehicular Technology Conference, 2002. Proceedings. VTC 2002-Fall, 2002 II](#)
Volume 1, 24-28 Sept. 2002 Page(s):243 - 246 vol.1
Digital Object Identifier 10.1109/VETECF.2002.1040341
[Abstract](#) | [Full Text: PDF\(307 KB\)](#) IEEE CNF
[Rights and Permissions](#)
-  **18. Trellis-coded differential unitary space-time modulation in slow flat fading interleaver**
Meixia Tao; Cheng, R.S.;
[Wireless Communications and Networking Conference, 2002. WCNC2002, 20](#)
Volume 1, 17-21 March 2002 Page(s):285 - 290 vol.1
Digital Object Identifier 10.1109/WCNC.2002.993508
[Abstract](#) | [Full Text: PDF\(292 KB\)](#) IEEE CNF
[Rights and Permissions](#)
-  **19. Iterative decoding and channel estimation for space-time BICM over MIM multipath AWGN channel**
Visoz, R.; Berthet, A.O.;
[Communications, IEEE Transactions on](#)
Volume 51, Issue 8, Aug. 2003 Page(s):1358 - 1367

Digital Object Identifier 10.1109/TCOMM.2003.815079

[Abstract](#) | [Full Text: PDF\(597 KB\)](#) IEEE JNL
[Rights and Permissions](#)

-  **20. Trellis-coded differential unitary space-time modulation over flat fading c**
Meixia Tao; Cheng, R.S.;
[Communications, IEEE Transactions on](#)
Volume 51, Issue 4, April 2003 Page(s):587 - 596
Digital Object Identifier 10.1109/TCOMM.2003.810844
[Abstract](#) | [Full Text: PDF\(686 KB\)](#) IEEE JNL
[Rights and Permissions](#)
-  **21. Obtaining full-diversity space-frequency codes from space-time codes vi**
Weifeng Su; Safar, Z.; Olfat, M.; Liu, K.J.R.;
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Si](#)
[IEEE Transactions on\]](#)
Volume 51, Issue 11, Nov 2003 Page(s):2905 - 2916
Digital Object Identifier 10.1109/TSP.2003.818200
[Abstract](#) | [Full Text: PDF\(912 KB\)](#) IEEE JNL
[Rights and Permissions](#)
-  **22. On low-complexity space-time coding for quasi-static channels**
Caire, G.; Colavolpe, G.;
[Information Theory, IEEE Transactions on](#)
Volume 49, Issue 6, June 2003 Page(s):1400 - 1416
Digital Object Identifier 10.1109/TIT.2003.811904
[Abstract](#) | [Full Text: PDF\(989 KB\)](#) IEEE JNL
[Rights and Permissions](#)
-  **23. Universal trellis codes for diagonally layered space-time systems**
Matache, A.; Wesel, R.D.;
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Si](#)
[IEEE Transactions on\]](#)
Volume 51, Issue 11, Nov 2003 Page(s):2773 - 2783
Digital Object Identifier 10.1109/TSP.2003.818159
[Abstract](#) | [Full Text: PDF\(590 KB\)](#) IEEE JNL
[Rights and Permissions](#)
-  **24. Iterative decoding of concatenated layered space-time trellis codes on M**
multipath AWGN channel
Berthet, A.O.; Visoz, R.;
[Communications, IEEE Transactions on](#)
Volume 51, Issue 6, June 2003 Page(s):940 - 952
Digital Object Identifier 10.1109/TCOMM.2003.813268
[Abstract](#) | [Full Text: PDF\(742 KB\)](#) IEEE JNL
[Rights and Permissions](#)
-  **25. Joint blind and semi-blind detection and channel estimation**
Piechocki, R.J.; Nix, A.R.; McGeehan, J.P.; Armour, S.M.D.;
[Communications, IEE Proceedings-](#)
Volume 150, Issue 6, 10 Dec. 2003 Page(s):419 - 426
Digital Object Identifier 10.1049/ip-com:20030716
[Abstract](#) | [Full Text: PDF\(356 KB\)](#) IET JNL
-  **26. Bit interleaved space-frequency coded modulation for OFDM systems**
Rende, D.; Wong, T.F.;
[Communications, 2003. ICC '03. IEEE International Conference on](#)
Volume 4, 11-15 May 2003 Page(s):2827 - 2831 vol.4
Digital Object Identifier 10.1109/ICC.2003.1204521

[Abstract](#) | [Full Text: PDF\(274 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)



27. On performance analysis and design criteria for trellis coded differential time modulation

Zhenyu Sun; Tjeng Thieng Tjhung;
[Communications, 2003. ICC '03. IEEE International Conference on](#)
Volume 5, 11-15 May 2003 Page(s):3477 - 3481 vol.5
Digital Object Identifier 10.1109/ICC.2003.1204101

[Abstract](#) | [Full Text: PDF\(331 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)



28. An efficient MIMO receiver structure for coded signals

Karami, E.; Shiva, M.; Khansari, M.;
[Vehicular Technology Conference, 2003. VTC 2003-Spring. The 57th IEEE Se](#)
Volume 2, 22-25 April 2003 Page(s):1089 - 1093 vol.2
Digital Object Identifier 10.1109/VETECS.2003.1207795

[Abstract](#) | [Full Text: PDF\(308 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)



29. Decoding order schemes for the layered receiver of multiple space-time flat fading channel

Eun Jeong Yim; Young Min Ki; Dong-Ku Kim;
[Vehicular Technology Conference, 2003. VTC 2003-Spring. The 57th IEEE Se](#)
Volume 2, 22-25 April 2003 Page(s):1350 - 1353 vol.2

[Abstract](#) | [Full Text: PDF\(341 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)



30. On performance analysis and design criteria for trellis coded unitary space-time modulation

Zhenyu Sun; Tjeng Thieng Tjhung;
[Wireless Communications and Networking, 2003. WCNC 2003. 2003 IEEE](#)
Volume 1, 16-20 March 2003 Page(s):262 - 267 vol.1
Digital Object Identifier 10.1109/WCNC.2003.1200357

[Abstract](#) | [Full Text: PDF\(340 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)



31. Fully-diverse unitary subgroups space-time codes

Konishi, T.;
[Vehicular Technology Conference, 2003. VTC 2003-Spring. The 57th IEEE Se](#)
Volume 2, 22-25 April 2003 Page(s):1109 - 1113 vol.2
Digital Object Identifier 10.1109/VETECS.2003.1207799

[Abstract](#) | [Full Text: PDF\(311 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)



32. Joint space-time interference cancellation and channel shortening

Samanta, R.; Heath, R.W., Jr.; Evans, B.L.;
[Signals, Systems and Computers, 2003. Conference Record of the Thirty-Sev](#)
Conference on
Volume 1, 9-12 Nov. 2003 Page(s):32 - 36 Vol.1
Digital Object Identifier 10.1109/ACSSC.2003.1291858

[Abstract](#) | [Full Text: PDF\(453 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)




33. Concatenated space-time block code with trellis coded modulation in OFDM


Teng Yong; Wu Junli; Luo Tao; Yue Guangxin;
[Communication Technology Proceedings, 2003. ICCT 2003. International Con](#)
Volume 2, 9-11 April 2003 Page(s):1194 - 1197 vol.2
Digital Object Identifier 10.1109/ICCT.2003.1209744


[Abstract](#) | [Full Text: PDF\(366 KB\)](#) | [IEEE CNF](#)
[Rights and Permissions](#)


- ☐ **34. Space-time coded ternary phase shift keying**
Koike, T.; Yoshida, S.;
[Information, Communications and Signal Processing, 2003 and the Fourth Pacific Conference on Multimedia. Proceedings of the 2003 Joint Conference of the IEEE International Conference on](#)
Volume 2, 15-18 Dec. 2003 Page(s):864 - 868 vol.2
Digital Object Identifier 10.1109/ICICS.2003.1292580
[Abstract](#) | [Full Text: PDF\(340 KB\)](#) | [IEEE CNF](#)
[Rights and Permissions](#)
- ☐ **35. Development of a novel SDM-COFDM prototype for broadband wireless**
Sugiyama, T.; Kurosaki, S.; Asai, Y.; Umehira, M.;
[Wireless Communications and Networking, 2003. WCNC 2003. 2003 IEEE](#)
Volume 1, 16-20 March 2003 Page(s):55 - 60 vol.1
Digital Object Identifier 10.1109/WCNC.2003.1200319
[Abstract](#) | [Full Text: PDF\(929 KB\)](#) | [IEEE CNF](#)
[Rights and Permissions](#)
- ☐ **36. A new approach to space-time-channel layering and coding for frequency channels**
Wang, X.F.;
[Communications, Computers and signal Processing, 2003. PACRIM. 2003 IEEE Conference on](#)
Volume 1, 28-30 Aug. 2003 Page(s):106 - 110 vol.1
[Abstract](#) | [Full Text: PDF\(402 KB\)](#) | [IEEE CNF](#)
[Rights and Permissions](#)
- ☐ **37. Space-time BICM versus space-time trellis code for MIMO block fading channels**
Berthet, A.O.; Visoz, R.; Boutros, J.J.;
[Information Theory Workshop, 2003. Proceedings. 2003 IEEE](#)
31 March-4 April 2003 Page(s):206 - 209
[Abstract](#) | [Full Text: PDF\(523 KB\)](#) | [IEEE CNF](#)
[Rights and Permissions](#)
- ☐ **38. Joint blind and semi-blind detection and channel estimation for space-time systems**
Piechocki, R.J.; Andrieu, C.; Nix, A.R.; McGeehan, J.P.;
[Acoustics, Speech, and Signal Processing, 2003. Proceedings. \(ICASSP '03\). International Conference on](#)
Volume 4, 6-10 April 2003 Page(s):IV - 349-52 vol.4
[Abstract](#) | [Full Text: PDF\(331 KB\)](#) | [IEEE CNF](#)
[Rights and Permissions](#)
- ☐ **39. A new diversity scheme for frequency selective MIMO channels**
Alkhawaldeh, S.; Xiaofeng Wang; Shayan, Y.;
[Personal, Indoor and Mobile Radio Communications, 2003. PIMRC 2003. 14th Proceedings on](#)
Volume 2, 7-10 Sept. 2003 Page(s):1410 - 1414 vol.2
Digital Object Identifier 10.1109/PIMRC.2003.1260345
[Abstract](#) | [Full Text: PDF\(366 KB\)](#) | [IEEE CNF](#)
[Rights and Permissions](#)
- ☐ **40. Iterative multi-user MMSE receiver for space-time trellis coded CDMA systems in frequency selective channels**
Ostuni, F.S.; Nakhai, M.R.; Aghvami, H.;


[Personal, Indoor and Mobile Radio Communications, 2003. PIMRC 2003. 14th Proceedings on](#)
Volume 2, 7-10 Sept. 2003 Page(s):1968 - 1972 vol.2
Digital Object Identifier 10.1109/PIMRC.2003.1260462
[Abstract](#) | [Full Text: PDF\(409 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)


-  **41. Pair space-time trellis codes and linear constellation preceding for MIMO**
Shouyin Liu; Jongwha Chong;
[Personal, Indoor and Mobile Radio Communications, 2003. PIMRC 2003. 14th Proceedings on](#)
Volume 3, 7-10 Sept. 2003 Page(s):2257 - 2261 vol.3
Digital Object Identifier 10.1109/PIMRC.2003.1259119
[Abstract](#) | [Full Text: PDF\(453 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)

-  **42. Bit-interleaved space-frequency coded modulation with iterative decoding systems**
Rende, D.; Xin Li; Wong, T.F.;
[Military Communications Conference, 2003. MILCOM 2003. IEEE](#)
Volume 1, 13-16 Oct. 2003 Page(s):163 - 168 Vol.1
Digital Object Identifier 10.1109/MILCOM.2003.1290096
[Abstract](#) | [Full Text: PDF\(1511 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)






-  **43. Joint semi-blind detection and channel estimation in space-frequency trellis coded MIMO-OFDM**
Piechocki, R.J.; Nix, A.R.; McGeehan, J.P.;
[Communications, 2003. ICC '03. IEEE International Conference on](#)
Volume 5, 11-15 May 2003 Page(s):3382 - 3386 vol.5
Digital Object Identifier 10.1109/ICC.2003.1204082
[Abstract](#) | [Full Text: PDF\(316 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)

-  **44. Differential space-time CDMA with turbo decoding**
Alesiani, F.; Tarable, A.;
[Global Telecommunications Conference, 2003. GLOBECOM '03. IEEE](#)
Volume 2, 1-5 Dec. 2003 Page(s):616 - 620 Vol.2
Digital Object Identifier 10.1109/GLOCOM.2003.1258312
[Abstract](#) | [Full Text: PDF\(276 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)

-  **45. A simple transmit antenna diversity technique for OFDM and its detection algorithm**
Jinho Choi;
[Vehicular Technology Conference, 2003. VTC 2003-Spring. The 57th IEEE Se](#)
Volume 4, 22-25 April 2003 Page(s):2594 - 2598 vol.4
Digital Object Identifier 10.1109/VETECS.2003.1208861
[Abstract](#) | [Full Text: PDF\(356 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)

-  **46. Interference suppression schemes for space-time Trellis coded CDMA systems**
Hayoung Yang; Jinhong Yuan; Vucetic, B.;
[Vehicular Technology Conference, 2003. VTC 2003-Spring. The 57th IEEE Se](#)
Volume 1, 22-25 April 2003 Page(s):717 - 721 vol.1
[Abstract](#) | [Full Text: PDF\(380 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)

- 47. Space-time decoding with imperfect channel estimation**

-  Tarrico, G.; Biglieri, E.;
[Signal Processing and Information Technology, 2003. ISSPIT 2003. Proceedir](#)
[IEEE International Symposium on](#)
14-17 Dec. 2003 Page(s):302 - 305
Digital Object Identifier 10.1109/ISSPIT.2003.1341120
[Abstract](#) | [Full Text: PDF\(314 KB\)](#) IEEE CNF
[Rights and Permissions](#)
-  **48. A MIMO system with backward compatibility for OFDM based WLANs**
Jianhua Liu; Jian Li; Stoica, P.;
[Signal Processing Advances in Wireless Communications, 2003. SPAWC 200](#)
[Workshop on](#)
15-18 June 2003 Page(s):130 - 134
[Abstract](#) | [Full Text: PDF\(455 KB\)](#) IEEE CNF
[Rights and Permissions](#)
-  **49. Type-1 hybrid-ARQ using MTCM spatio-temporal vector coding for MIMO**
Zhihong Ding; Rice, M.;
[Communications, 2003. ICC '03. IEEE International Conference on](#)
Volume 4, 11-15 May 2003 Page(s):2758 - 2762 vol.4
[Abstract](#) | [Full Text: PDF\(285 KB\)](#) IEEE CNF
[Rights and Permissions](#)
-  **50. High speed wireless data transmission in layered space-time trellis code**
Runhua Chen; Letaief, K.B.;
[Vehicular Technology Conference, 2003. VTC 2003-Spring. The 57th IEEE Se](#)
Volume 1, 22-25 April 2003 Page(s):52 - 56 vol.1
Digital Object Identifier 10.1109/VETECS.2003.1207500
[Abstract](#) | [Full Text: PDF\(409 KB\)](#) IEEE CNF
[Rights and Permissions](#)
-  **51. Joint semi-blind detection and channel estimation in space-frequency trellis**
MIMO-OFDM
Piechocki, R.J.; Nix, A.R.; McGeehan, J.P.;
[Personal Mobile Communications Conference, 2003. 5th European \(Conf. Put](#)
22-25 April 2003 Page(s):101 - 105
[Abstract](#) | [Full Text: PDF\(412 KB\)](#) IET CNF

[Help](#) [Contact Us](#) [Privacy & ;](#)

© Copyright 2006 IEEE -

Indexed by
 Inspec®


[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

☐ Search Results
[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "(((((((mimo) or (plural* <near/3> antenna) or (multiple <near/3> antenna))<in>metad..."

☒ e-mail

Your search matched 1 of 51 documents.

A maximum of 100 results are displayed, 100 to a page, sorted by Publication year in Ascending order.

» Search Options

[View Session History](#)[New Search](#)

Modify Search

☐ Check to search only within this results setDisplay Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

[Select All](#) [Deselect All](#)

1. Column-anchored zeroforcing blind equalization for multiuser wireless FI

Jie Zhu; Zhi Ding; Xi-Ren Cao;

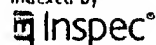
[Selected Areas in Communications, IEEE Journal on](#)

Volume 17, Issue 3, March 1999 Page(s):411 - 423

Digital Object Identifier 10.1109/49.753727

[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(452 KB) IEEE JNL[Rights and Permissions](#)

Indexed by

[Help](#) [Contact Us](#) [Privacy &](#)

© Copyright 2006 IEEE -